

UNIVERSITY OF ORADEA
FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
 Licence's Degree Program: **ELECTROMECHANICS**
 Fundamental Field:
 Undergraduate Field: **ELECTRICAL ENGINEERING**
 Duration of studies / no. of credits: **4 years/240 credits**
 Type of education: **Full-time learning (IF)**

Valid from academic year
 2023-2024
 Beginning with 1st year of
 study

CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0003	Mathematical Analysis	FD	2	1	-	-	42	Ex	4	58	
IETI-0002	Linear algebra, analytical and differential geometry	FD	2	1	-	-	42	Ex	3	33	
IETI-0769	Applied informatics	FD	2	-	2	-	56	Ex	4	44	
IETI-1048	Computer-Assisted Graphics I	FD	2	-	2	-	56	Vp	4	44	
IETI-0013	Physics	FD	2	1	-	-	42	Ex	4	58	
IETI-1046	Quality and reliability	DD	2	1	-	-	42	Vp	3	33	
IETI-0212	Technological methods and procedures	DD	2	-	1	-	42	Vp	3	33	
IETI-0189	Elements of mechanical engineering	DD	2	-	1	-	42	Vp	3	33	
IETI-0548	Modern languages I	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		16	5	6	-	378		30	372	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	1	11	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0009	Special mathematics	FD	2	2	-	-	56	Ex	4	44	
IETI-0247	Electromagnetic field theory	DD	2	1	2	-	70	Ex	6	80	
IETI-0205	Electrotechnic materials	DD	2	-	2	-	56	Ex	5	69	
IETI-0409	Strength of materials and mechanisms	SD	2	1	-	-	42	Vp	3	33	
IETI-1049	Computer-Assisted Graphics II	FD	2	-	2	-	56	Vp	5	69	
IETI-0186	Equations of mathematical physics	FD	2	-	2	-	56	Ex	5	69	
IETI-0549	Modern Languages II	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		12	5	8	-	350		30	400	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	11	

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**Head of department ,
 Lecturer Ph.D eng. ARION Mircea-Nicolae**

**RECTOR,
 Professor Dr. BUNGĂU Constantin**

**DEAN,
 Professor dr. HATHAZI Francisc Ioan**

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 Licence's Degree Program: **ELECTROMECHANICS**

Fundamental Field:

 Undergraduate Field: **ELECTRICAL ENGINEERING**

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CURRICULUM **
Year of study II

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0210	Numerical methods	FD	2	2	2	-	84	Ex	6	66	
IETI-0203	Electric and electronic measurements I	DD	2	-	2	-	56	Ex	5	69	
IETI-0248	Theory of electrical circuits I	DD	2	1	2	-	70	Ex	5	55	
IETI-0194	Bond graphs in electrotechnics	SD	2	-	1	-	42	Vp	3	33	
IETI-0315	Analogical and digital electronics I	DD	2	-	1	-	42	Ex	5	83	
IETI-0138	Computer programming and programming languages	FD	2	-	2	-	56	Ex	3	19	
IETI-0550	Modern Languages III	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		12	4	10	-	364		29	361	
	OBLIGATORII OPȚIONALE										
IETI-0487	Communication	CD	1	-	-	-	14	Vp	1	11	
IETI-1108	Academic Ethics and Integrity	CD	1	-	-	-	14	Vp	1	11	
	TOTAL		1	-	-	-	14		1	11	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0511	Philosophy	CD	2	1	-	-	42	Vp	2	8	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0249	Theory of electrical circuits II	DD	2	1	2	-	70	Ex	5	55	
IETI-0204	Electric and electronic measurements II	DD	2	-	2	-	56	Ex	4	44	
IETI-0272	Electrical machines I	DD	2	-	2	-	56	Ex	4	44	
IETI-0316	Analogical and digital electronics II	DD	2	-	2	-	56	Ex	4	44	
IETI-0244	Electrical technologies	SD	2	-	1	-	42	Vp	4	58	
IETI-0551	Modern Languages IV	CD	-	1	-	-	14	Vp	2	36	
IETI-1037	Domain practice	DD	-	-	-	-	90	Vp	4	10	
	TOTAL		10	2	9	-	384		27	291	
	OBLIGATORII OPȚIONALE										
IETI-0242	Programming techniques	SD	2	-	1	-	42	Vp	3	33	
IETI-0478	Web technologies	SD	2	-	1	-	42	Vp	3	33	
	TOTAL		2	-	1	-	42		3	33	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0504	General Economics	CD	2	1	-	-	42	Vp	2	8	

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IETI-0451	Robots	SD	2	-	1	-	42	Vp	3	33	
IETI-1064	Industrial Robotics	SD	2	-	1	-	42	Vp	3	33	
	PACHET 2										
IETI-0283	Electromechanical industrial equipment	SD	2	-	1	-	42	Ex	3	33	
IETI-0976	Sequentially control of the electromechanical systems	SD	2	-	1	-	42	Ex	3	33	
	PACHET 3										
IETI-0223	Numerical systems design	SD	2	-	1	-	42	Vp	3	33	
IETI-0977	Advanced numerical equipments in electromechanical systems	SD	2	-	1	-	42	Vp	3	33	
	TOTAL		6	-	3	-	126		9	99	
	FACULTATIVE										
IETI-1112	Modern languages VI	CD	-	2	-	-	28	Vp	2	22	
IETI-0449	Computer networks	SD	2	-	1	-	42	Vp	2	8	
IETI-0963	Telecommunications systems	SD	2	-	1	-	42	Vp	2	8	

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**Head of department ,
Associate professor Ph.D eng. Francisc -
Ioan HATHAZI**

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**DEAN,
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CURRICULUM **
Year of study IV

Code	Disciplines*	Type	Sem. VII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
IETI-0413	Electrical drives II	DD	2	-	1	1	56	Ex	4	44	
IETI-0981	Reliability and diagnosis	SD	2	1	-	-	42	Ex	4	58	
IETI-0979	Electromechanical systems I	SD	2	-	1	-	42	Ex	4	58	
IETI-1065	Non-Conventional Devices and Technologies	SD	2	-	1	-	42	Vp	4	58	
IETI-0817	Generation, transportation and distribution of electrical energy	DD	2	-	2	-	56	Ex	4	44	
IETI-0968	EU legislation in electrical engineering	CD	1	-	-	-	14	Vp	2	36	
IETI-0270	Exploitation and maintenance of electromechanical systems	SD	2	-	1	-	42	Vp	4	58	
TOTAL			13	1	6	1	294		26	356	
OBLIGATORII OPd'z'IONALE											
PACHET 1											
IETI-0269	Electrothermy	SD	2	-	1	-	42	Ex	3	33	
IETI-0281	Heat and mass transfer	SD	2	-	1	-	42	Ex	3	33	
PACHET 2											
IETI-0693	Electrothermics - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-0641	Heat and Mass Transfer - Project	SD	-	-	-	1	14	Vp	1	11	
TOTAL			2	-	1	1	56		4	44	
FACULTATIVE											
IETI-0220	Ecological norms and standards in energetic systems	SD	2	-	2	-	56	Vp	3	19	
IETI-0862		SD	2	-	2	-	56	Vp	3	19	

Code	Disciplines*	Type	Sem. VIII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
IETI-0255	Using electrical energy	SD	2	-	1	1	56	Ex	3	19	
IETI-0243	Microwave Technologies	SD	2	-	2	-	56	Ex	3	19	
IETI-1110	Industrial electronic systems	SD	2	-	1	-	42	Vp	3	33	
IETI-1107	Renewable sources	SD	2	-	2	-	56	Ex	3	19	
IETI-1044	Practice for the diploma project	SD	-	-	-	-	60	Vp	6	90	
IETI-0982	Electromechanical systems II	SD	2	-	1	-	42	Ex	3	33	
IETI-1022	Diploma project development	SD	-	-	-	-	56	Vp	4	44	
TOTAL			10	-	7	1	368		25	257	
OBLIGATORII OPd'z'IONALE											
PACHET 1											
IETI-0222	The design of electrical systems	SD	2	-	-	1	42	Vp	2	8	
IETI-1106	Modeling and simulation in electrical engineering	SD	2	-	-	1	42	Vp	2	8	
PACHET 2											
IETI-0276	Electromechanical microsystems	SD	2	-	2	-	56	Vp	3	19	
IETI-0958	Microcontrollers and embedded systems	SD	2	-	2	-	56	Vp	3	19	
TOTAL			4	-	2	1	98		5	27	
LICEND'z' d'z'											
IETI-0901	Diploma exam	SD	-	-	-	-	0	Ex	10	250	

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